



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

BRUCE BRYAN ET AL.

Serial No.: 09/808,898

Filed: March 15, 2001

Group Art Unit: 1642

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:  
: RENILLA RENIFORMIS  
: FLUORESCENT PROTEINS,  
: NUCEIC ACIDS ENCODING THE  
: FLUORESCENT PROTEINS AND THE  
: USE THEREOF IN DIAGNOSTICS  
:  
: Attorney Docket No. 24729-128

MAR 22 2002

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**INFORMATION DISCLOSURE STATEMENT**

March 13, 2002

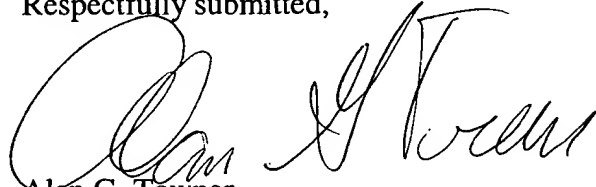
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Pursuant to the provisions of 37 CFR Sections 1.56, 1.97 and 1.98, Applicants submit herewith copies of the references cited on the attached Forms PTO/SB/08A and Forms PTO/SB/08B for consideration during prosecution of this application. The cited documents are provided in five groups: (1) art that may be related to isolation/cloning of GFP or luciferase proteins and genes; (2) art that may be related to uses of GFP or luciferase; (3) art that may be related to items/procedures that use chemiluminescence; (4) art that may be related to novelty items which use chemiluminescence or bioluminescence; and (5) art that may be related to items/procedures that do not use chemiluminescence or bioluminescence.

This Statement is filed solely for the purpose of complying with the pertinent rules of the Office and is not intended to be a substitute for an independent evaluation by the Examiner of the art cited or an independent search by the Examiner, and no representation of any nature is made or intended by the filing of this Statement.

Respectfully submitted,



Alan G. Towner

Registration No. 32,949  
Pietragallo, Bosick & Gordon  
One Oxford Centre, 38<sup>th</sup> Floor  
301 Grant Street  
Pittsburgh, PA 15219  
Attorney for Applicant

(412) 263-4340

COPY

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
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BRYAN et al.FILING DATE  
March 15, 2001GROUP  
1642

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1) Art that concerns isolation/cloning of GFP, or Luciferase proteins and genes.

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLAS S	SUB CLAS S	FILING DATE
1	A	4	5	8	1	3	3	5	4/8/86	Baldwin	435	172.3	12/1/82
1	B	4	9	6	8	6	1	3	11/6/90	Masuda et al.	435	172.3	07/26/88
1	C	5	0	9	3	2	4	0	3/3/92	Inouye et al.	435	69.1	10/8/87
1	D	5	0	9	8	8	2	8	3/24/92	Geiger et al.	435	7.72	10/24/86
1	E	5	1	3	9	9	3	7	8/18/92	Inouye et al.	435	69.1	11/18/88
1	F	5	1	6	2	2	2	7	11/10/92	Cormier	435	252.33	03/17/88
1	G	5	1	8	2	2	0	2	1/26/93	Kajiyama et al.	435	189	8/5/91
1	H	5	1	9	6	5	2	4	3/23/93	Gustafson et al.	536	23.2	01/06/89
1	I	5	2	1	9	7	3	7	6/15/93	Kajiyama et al.	435	69.1	3/26/91
1	J	5	2	2	9	2	8	5	7/20/93	Kajiyama et al.	435	189	6/23/92
1	K	5	2	9	2	6	5	8	3/8/94	Cormier et al.	435	252.33	6/17/93
1	L	5	3	3	0	9	0	6	7/19/94	Kajiyama et al.	435	189	06/15/93
1	M	5	3	5	2	5	9	8	10/4/94	Kajiyama et al.	435	189	8/29/91
1	N	5	3	6	0	7	2	8	11/1/94	Prasher	435	189	12/1/92
1	O	5	4	1	8	1	5	5	05/23/95	Cormier et al.	435	189	12/14/93
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1	R	5	6	2	5	0	4	8	4/29/97	Tsien et al.	536	23.4	11/10/94
1	S	5	7	4	1	6	6	8	04/21/98	Ward et al.	435	69.1	05/26/95
1	T	5	7	7	7	0	7	9	07/07/98	Tsien et al.	530	350	11/20/96
1	U	5	8	0	4	3	8	7	09/08/98	Cormack et al.	435	6	01/31/97
1	V	5	8	7	4	3	0	4	02/23/99	Zolotukhin et al.	435	366	01/18/96

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLAS S	SUB CLAS S	Translation Yes No	
1	W	0	2	2	6	9	7	9	7/1/87	EP A2				
1	X	0	3	8	7	3	5	5	9/19/90	EP A1				
1	Y	0	5	4	0	0	6	4	5/5/93	EP A1				
1	Z	3	0	3	0	6	7	8	2/8/91	JP				X*
1	AA	4	2	5	8	2	8	8	09/14/92	JP				X*
1	AB	6	3	3	1	7	0	7 9	12/26/88	JP				X*
1	AC	7	2	2	2	5	9	0	08/22/95	JP				X*

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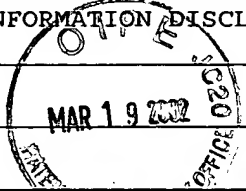
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FORM PTO-1449 (Modified)										ATTY. DOCKET NO. 24729-0128		SERIAL NO. 09/808,898	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT										APPLICANT BRYAN et al.			
FILING DATE March 15, 2001										GROUP 1642			
1	AD	9	0	0	3	3	0	4	6/4/87	PCT			
1	AE	9	0	0	1	5	4	2	02/22/90	PCT			
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1	AH	9	5	1	8	8	5	3	07/13/95	PCT			
1	AI	9	5	2	1	1	9	1	8/10/95	PCT			
1	AJ	9	5	2	5	7	9	8	9/28/95	PCT			
1	AK	9	6	2	3	8	1	0	08/08/96	PCT			
1	AL	9	6	2	7	6	7	5	09/12/96	PCT			
1	AM	9	7	2	6	3	3	3	07/24/97	OCT			
1	AN	9	9	4	9	0	1	9	09/30/99	PCT			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
1	AO	Baldwin <i>et al.</i> , Active Center Studies on Bacterial Luciferase: Modification of the Enzyme with 2,4-Dinitrofluorobenzene, <i>Biochemistry</i> 20:512-517 (1981).
1	AP	Baldwin <i>et al.</i> , Cloning of the luciferase structural genes from <i>Vibrio harveyi</i> and expression of bioluminescence in <i>Escherichia coli</i> , <i>Biochemistry</i> 23: 3663-3667 (1984)
1	AQ	Belas <i>et al.</i> , Bacterial bioluminescence: Isolation and expression of the luciferase genes from <i>Vibrio harveyi</i> , <i>Science</i> 218: 791-793 (1982)
1	AR	Blinks <i>et al.</i> , Multiple forms of the calcium-sensitive bioluminescent protein aequorin, <i>Fed. Proc.</i> 1435: 474 (1975)
1	AS	Casper <i>et al.</i> Expression of the green fluorescent protein-encoding gene from a tobacco mosaic virus-based vector <i>Gene</i> 173: 69-73 (1996)
1	AT	Chalfie, Green fluorescent protein, <i>Photochemistry and Photobiology</i> , 62(4):651-656 (1995)
1	AU	Charbonneau <i>et al.</i> , "Amino acid sequence of the calcium-dependent photoprotein aequorin," <i>Biochem.</i> 24:6762-6771 (1985)
1	AV	Chemical Abstract #115(5)43510b (citing, Japanese Patent Application No. JP 3-30678 Osaka)
1	AW	Cohn <i>et al.</i> , Nucleotide Sequence of the <i>luxA</i> Gene of <i>Vibrio harveyi</i> and the Complete Amino Acid Sequence of the Subunit of Bacterial Luciferase, <i>J. Biol. Chem.</i> , 260(10): 6139-6146; (1985)
1	AX	Cohn <i>et al.</i> "Cloning of the <i>Vibrio harveyi</i> luciferase genes: use of a synthetic oligonucleotide probe", <i>Proc. Natl. Acad. Sci. U.S.A.</i> 80(1):102-123 (1983)
1	AY	Database Derwent # 007778737 WPI Acc. No. 89-043849/198906 (citing, Japanese Patent Application No. JP 63317079, published December 26, 1988)
1	AZ	Database Derwent #008196500 (citing WO 9001542, Recombinant luciferase, fragments from it, and gene coding for it - the luciferase having increased stability and quantum yield)
1	BA	Database Derwent #010423635 WPI Acc. No. 95-324955/199542 (citing, Japanese Patent Application No. JP 7222590, published August 22, 1995)
1	BB	Database Derwent #008580311 WPI Acc. No. 91-084343/199112 (citing, Japanese Patent Application No. JP 3030678 published February 8, 1991)
1	BC	Database EMBL Nucleotide and Protein Sequences, AC=AF025844, Co-reporter vector pRL-Null, complete sequence, abstract, (1997)
1	BD	Database Derwent #009227258 WPI Acc. No. 92-354680/199243 (citing, Japanese Patent Application No. JP 4258288, published September 14, 1993)
1	BE	de Wet <i>et al.</i> , "Cloning and expression of the firefly luciferase gene in mammalian cells," <i>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</i> ,

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FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24729-0128	SERIAL NO. 09/808,898	RECEIVED MAR 22 2002 TECH CENTER 1600/2900
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT				
APPLICANT BRYAN et al.		FILING DATE March 15, 2001	GROUP 1642	
				
		DeLuca et al., eds., pp. 368-371, Academic Press (1981)		
1	BF	de Wet et al., "Cloning firefly luciferase," <i>Meth. Enzymol.</i> 133:3-14 (1986)		
1	BG	de Wet et al., "Cloning of firefly luciferase cDNA and the expression of active luciferase in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:7870-7873 (1985)		
1	BH	Delagrave et al., Red-shifted excitation mutants of the green fluorescent protein, <i>Bio/Technology</i> 13(2):151-154 (1995)		
1	BI	Ehrig et al., Green-fluorescent protein mutants with altered fluorescence excitation spectra, <i>FEBS Letters</i> 367:163-166 (1995)		
1	BJ	Engbrecht et al., "Techniques for cloning and analyzing bioluminescence genes from marine bacteria," <i>Meth. Enzymol.</i> 133:83-99, 234 (1986)		
1	BK	Engbrecht et al., Bacterial bioluminescence: Isolation and genetic analysis of functions from <i>Vibrio fischeri</i> , <i>Cell</i> 32: 773-781 (1983)		
1	BL	Engbrecht et al., Identification of genes and gene products necessary for bacterial bioluminescence, <i>Proc. Natl. Acad. Sci. USA</i> 81: 4154-4158 (1984)		
1	BM	Frackman et al., "Cloning, organization, and expression of the bioluminescence genes of <i>Xenorhabdus luminescens</i> ," <i>J. Bacteriol.</i> 172(10):5767-5773 (1990)		
1	BN	Gast et al., Separation of a blue fluorescence protein from bacterial luciferase. <i>Biochem. Biophys. Res. Commun.</i> 80(1): 14-21 (1978)		
1	BO	Goto et al., Preliminary report on the pink-colored <i>Cypridina</i> luciferase, a natural model of the luciferin-luciferase complex, in <i>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</i> , DeLuca et al., eds., pp. 203-207, Academic Press (1981)		
1	BP	Hastings et al., The Red Absorbing Flavin Species in the Reaction of Bacterial Luciferase with FMNH <sub>2</sub> and O <sub>2</sub> , <i>Bioluminescence and Chemiluminescence</i> pp. 403-408 (1981).		
1	BQ	Hastings et al., Fluorescence Properties of Luciferase Peroxyflavins Prepared with ISO-FMN and 2-THIO FMN, <i>Bioluminescence and Chemiluminescence</i> pp. 97-102 (1981).		
1	BR	Hastings, Bioluminescence, in <i>Cell Physiol.: Source Book</i> , Sperelakis, ed., pp. 665-681, Academic Press (1995)		
1	BS	Hill et al., <i>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</i> , DeLuca et al., eds., pp. 396-399, Academic Press (1981)		
1	BT	Hori et al., Structure of native <i>Renilla reniformis</i> luciferin, <i>Proc. Natl. Acad. Sci. USA</i> 74: 4285-4287 (1977).		
1	BU	Illarionov et al., Sequence of the cDNA encoding the Ca <sup>2+</sup> -activated photoprotein obelin from the hydroid poly <i>Obelia longissima</i> , <i>Gene</i> 153:273-274 (1995)		
1	BV	Inouye et al., "Overexpression and purification of the recombinant Ca <sup>2+</sup> -binding protein, apoaequorin," <i>J. Biochem.</i> 105(3):473-477 (1989).		
1	BW	Inouye et al., Cloning and sequence analysis of cDNA for the luminescent protein aequorin, <i>Proc. Natl. Acad. Sci. USA</i> 82:3154-3158 (1985).		
1	BX	Inouye et al., Squid bioluminescence II. Isolation from <i>Watasenia scintillans</i> and synthesis of 2-(p-hydroxybenzyl)-6-(p-hydroxyphenyl)-3,7-dihydroimidazo[1,2-a]pyrazin-3-one, <i>Jap. Soc. Chem. Lett.</i> pp. 141-144 (1975).		
1	BY	Inouye et al., Expression of Apoaequorin Complementary DNA in <i>Escherichia coli</i> , <i>Biochemistry</i> 25:8425-8429 (1986).		
1	BZ	Johnson et al., Introduction to the <i>Cypridina</i> system, <i>Methods in Enzymology. Bioluminescence and Chemiluminescence.</i> 57:331-349 (1978).		
1	CA	Johnson, <i>Luminescence, Narcosis, and Life in the Deep Sea</i> , pp. 50-56, Vantage Press		
1	CB	Johnson et al., "Compartmentalization of algal bioluminescence: autofluorescence of bioluminescent particles in the dinoflagellate <i>Gonyolax</i> as studied with image-intensified video microscopy and flow cytometry," <i>J. Cell. Biol.</i> 100(5):1435-1446 (1985)		

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		FILING DATE March 15, 2001	GROUP 1642

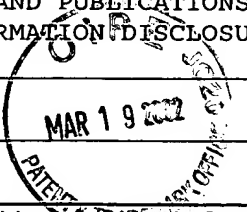
1	CC	Karatani et al., A blue fluorescent protein from a yellow-emitting luminous bacterium, <u>Photochem. Photobiol.</u> 55(2): 293-299 (1992)
1	CD	Kohama et al., Molecular weight of the photoprotein aequorin, <u>Biochemistry</u> 10: 4149-4152 (1971)
1	CE	Kurose et al., Bioluminescence of the Ca <sup>2+</sup> -binding photoprotein aequorin after cysteine modification, <u>Proc. Natl. Acad. Sci. USA</u> 86(1): 80-84 (1989)
1	CF	Lee et al., "Purification of a Blue-fluorescent Protein from the Bioluminescent Bacterium <i>Photobacterium phosphoreum</i> ," <u>Methods Enzymol.</u> , (Biolumin. Chemilumin.), 57:226-234 (1978)
1	CG	Lorenz et al., Isolation and expression of a cDNA encoding <i>Renilla reniformis</i> luciferase, <u>Proc. Natl. Acad. Sci. USA</u> 88: 4438-4442 (1991)
1	CH	Matthews et al., Purification and properties of <i>Renilla reniformis</i> luciferase, <u>Biochemistry</u> , 16: 85-91 (1977)
1	CI	Matz et al., "Fluorescent proteins from nonbioluminescent Anthozoa species", <u>Nature Biotechnol.</u> , 17:969-973; (1999)
1	CJ	McElroy et al., The colors of bioluminescence: Role of enzyme and substrate structure, in <u>Molecular Architecture in Cell Physiology</u> , pp. 63-80, Hayashi et al., eds., Prentice-Hall, Inc., Englewood Cliffs, NJ (1966)
1	CK	Miyamoto et al., Cloning and expression of the genes from the bioluminescent system of marine bacteria, <u>Meth. Enzymol.</u> 133:70-81 (1986)
1	CL	Morise et al., Intermolecular Energy Transfer in the Bioluminescent System of <i>Aequorea</i> <u>Biochemistry</u> 13:2656-2662 (1974)
1	CM	Ormo et al. Crystal Structure of the <i>Aequorea victoria</i> Green Fluorescent Protein <u>Science</u> 273:1392-1395 (1996)
1	CN	Prasher et al., Cloning and expression of the cDNA coding for aequorin, a bioluminescent calcium-binding protein, <u>Biochem. Biophys. Res. Commun.</u> 126(3):1259-1268 (1985)
1	CO	Prasher et al., <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</u> , DeLuca et al., eds., pp. 365-367, Academic Press (1981)
1	CP	Prasher et al., Isolation and expression of a cDNA coding for aequorin, the Ca <sup>2+</sup> -activated photoprotein from <i>Aequorea victoria</i> , <u>Meth. Enzymol.</u> 133:288-297 (1986)
1	CQ	Prasher et al., Sequence comparisons of complementary DNAs encoding aequorin isotypes, <u>Biochem.</u> 26:1326-1332 (1987)
1	CR	Prasher et al., Primary structure of the <i>Aequorea victoria</i> green-fluorescent protein, <u>Gene</u> 111:229-233 (1992)
1	CS	Prendergast et al., "Chemical and Physical Properties of Aequorin and the Green Fluorescent Protein Isolated from <i>Aequorea forskalea</i> ", <u>Biochem.</u> , 17: 3448-3453; (1978)
1	CT	Sandalova, Some notions about structure of bacterial luciferase, obtained by analysis of amino acid sequence, and study of monoclonal antibodies binding, In <i>Biological Luminescence, Proceedings of International School</i> , 1st, ed., Jezowska-Trzebiatowska et al., World Scienc (1990)
1	CU	SeaLite Sciences Technical Report No. 3, "The Recombinant Photoprotein, AquaLite™", SeaLite Sciences, Inc., pages 1-6; (1994)
1	CV	Sherf et al., Dual-luciferase reporter assay: an advanced co-reporter technology integrating firefly and <i>Renilla</i> luciferase assays, <u>Promega Notes</u> 57:2-5 (1996)
1	CW	Shimomura et al., Semi-synthetic aequorin. An improved tool for the measurement of calcium ion concentration, <u>Biochem. J.</u> 251(2): 405-10 (1988)
1	CX	Shimomura et al. Structure of Light-Emitting Moiety of Aequorin <u>Biochemistry</u> 11:1602-1608 (1972)

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		FILING DATE March 15, 2001	GROUP 1642
1	CY	Shimomura et al., Recombinant aequorin and recombinant semi-synthetic aequorins. Cellular Ca <sup>2+</sup> ion indicators, <u>Biochem. J.</u> 270(2): 309-12 (1990)	
1	CZ	Shimomura et al. The Structure of <i>Latia</i> Luciferin <u>Biochemistry</u> 7:1734-1738 (1968)	
1	DA	Shimomura, Structure of the Chromophore of Aequorea Green Fluorescent Protein <u>FEBS Letters</u> 104:220-222 (1979)	
1	DB	Shimomura et al., Extraction, purification and properties of a aequorin, a bioluminescent protein from the luminous hydromedusan, <i>Aequorea</i> , <u>J. Cell. Comp. Physiol.</u> 59: 223-238 (1962)	
1	DC	Shimomura et al., Properties and reaction mechanism of the bioluminescence system of the deep-sea shrimp <i>Oplophorus graciliorostris</i> , <u>Biochem</u> 17(6): 994-998 (1978)	
1	DD	Shimomura et al., Properties of the bioluminescent protein aequorin, <u>Biochemistry</u> 8: 3991-3997 (1969)	
1	DE	Shimomura et al. Reactions Involved in Bioluminescence of Limpet ( <i>Latia neritoides</i> ) and Luminous Bacteria <u>Proc. Natl. Acad. Sci. U.S.A.</u> 69:2086-2089 (1972)	
1	DF	Spurlok et al., A fine structure study of the anthocodium in <i>Renilla mulleri</i> , <u>J. of Cell Biology</u> 64:15-28 (1975)	
1	DG	Thompson et al., Cloning and expression of cDNA for the luciferase from the marine ostracod <i>Vargula hilgendorfi</i> xi, <u>Proc. Natl. Acad. Sci. USA</u> 86: 6567-6571 (1989)	
1	DH	Tsien, The Green Fluorescent Protein <u>Annu. Rev. Biochem.</u> 67:509-544 (1998)	
1	DI	Tsuji et al., Some properties of luciferase from the bioluminescent crustacean, <i>Cypridina hilgendorfi</i> , <u>Biochem.</u> 13(25):5204-5209 (1974)	
1	DJ	Tsuji, "Cypridina luciferin and luciferase", <u>Meth. Enzymol.</u> 57:364-372; (1978)	
1	DK	Tsuji et al., Site-specific mutagenesis of the calcium-binding photoprotein aequorin, <u>Proc. Natl. Acad. Sci. USA</u> 83:8107-8111 (1986)	
1	DL	Wampler et al. Similarities in the Bioluminescence from the Pennatulacea <u>Biochimica et Biophysica Acta</u> 314:104-109 (1973).	
1	DM	Ward et al., Energy Transfer Via Protein-Protein Interaction in <i>Renilla</i> Bioluminescence, <u>Photochemistry and Photobiology</u> 27:389-396 (1978).	
1	DN	Ward et al., Sequence and Chemical Structure of the Hexapeptide Chromophore of Aequorea Green-Fluorescent Protein, <u>Photochemistry and Photobiology</u> 49:62S (1989)	
1	DO	Ward et al., Extraction of <i>Renilla</i> -type luciferin from the calcium-activated photoproteins aequorin, mnemiopsin, and berovin, <u>Proc. Natl. Acad. Sci. USA</u> 72: 2530-2534 (1975)	

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	FILING DATE March 15, 2001	GROUP 1642

2) Art that concerns uses of GFP, or Luciferase.

U.S. PATENT DOCUMENTS													
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2	DP	4	8	6	1	7	0	9	8/29/89	Ulitzur <i>et al.</i>	435	6	5/31/85
2	DQ	5	1	9	6	3	1	8	3/23/93	Baldwin <i>et al.</i>	435	69.1	06/26/90
2	DR	5	2	2	1	6	2	3	6/22/93	Legocki <i>et al.</i>	435	252.3	7/19/89
2	DS	5	2	4	6	8	3	4	9/21/93	Tsuji <i>et al.</i>	435	7.91	2/19/92
2	DT	5	4	9	1	0	8	4	02/13/96	Chalfie <i>et al.</i>	435	189	09/10/93
2	DU	5	7	7	6	6	8	1	07/07/98	Virta <i>et al.</i>	435	6	09/15/95
2	DV	5	8	9	1	6	4	6	04/06/99	Barak <i>et al.</i>	435	7.2	06/05/97
2	DW	5	9	1	2	1	3	7	06/15/99	Tsien <i>et al.</i>	435	15	07/16/96

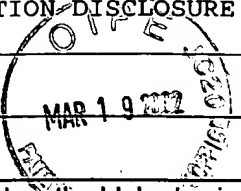
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2	DZ	0	3	8	6	6	9	1	9/12/90	EP A3	C12Q 1	68	
2	EA	2	2	8	8	2	3	2	10/11/95	UK			
2	EB	3	9	3	5	9	7	4	5/2/91	DE A1			X*
2	EC	5	0	6	4	5	8	3	3/19/93	JP			X*
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2	EH	9	8	0	2	5	7	1	01/22/98	PCT	--	--	
2	EI	9	8	1	4	6	0	5	04/09/98	PCT	--	--	
2	EJ	9	8	2	6	2	7	7	6/18/98	PCT	G01N	21/76	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
2	EK	"AquaLite®. A calcium-triggered photoprotein," SeaLite Sciences Technical Report No. 3 (1994)
2	EL	Amsterdam, <i>et al.</i> The Aequorea victoria Green Fluorescent Protein Can Be Used as a Reporter in Live Zebrafish Embryos <u>Developmental Biology</u> 171:123-129 (1995)
2	EM	Ancil <i>et al.</i> , Mechanism of photoinactivation and re-activation in the bioluminescence system of the ctenophore Mnemiopsis, <u>Biochem. J.</u> 22(1): 269-272 (1984)
2	EN	Badminton <i>et al.</i> , nucleoplasmin-targeted aequorin provides evidence for a nuclear calcium barrier, <u>Expt. Cell Research</u> 216(1): 236-243 (1995)
2	EO	Baldwin <i>et al.</i> , "Applications of the cloned bacterial luciferase genes <i>LUXA</i> and <i>LUXB</i> to the study of transcriptional promoters and terminators," <u>Bioluminescence and Chemiluminescence: Basic Chemistry and Analytical Applications</u> , DeLuca and McElroy, Eds., Academic Press (1981)
2	EP	Becvar <i>et al.</i> , A thermodynamic explanation for the kinetic differences observed using different

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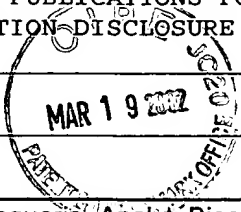
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT			
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		chain length aldehydes in the <i>in vitro</i> bacterial bioluminescent reaction, in <u>Bioluminescence and Chemiluminescence</u> , pp. 147-55, 180-85, Proc. of the IV Int. Bioluminescence and Chemiluminescence Symp., Freiburg, September 1986	
2	EQ	Button <i>et al.</i> , Aequorin-expressing mammalian cell lines used to report $Ca^{2+}$ mobilization, <u>Cell Calcium</u> 14(9):663-671 (1993)	
2	ER	Chalfie <i>et al.</i> Green Fluorescent Protein as a marker for Gene Expression <u>Science</u> 263: 802-805 (1994)	
2	ES	Charbonneau <i>et al.</i> $Ca^{2+}$ -induced Bioluminescence in <i>Renilla reniformis</i> Purification and Characterization of a Calcium-Triggered Luciferin-Binding Protein <u>J. Biol. Chem.</u> 254:769-780 (1979)	
2	ET	Cody <i>et al.</i> Chemical Structure of the Hexapeptide Chromophore of the Aequorea Green-Fluorescent Protein <u>Biochemistry</u> 32:1212-1218 (1993)	
2	EU	Cormack <i>et al.</i> Yeast-enhanced green fluorescent protein (yEGFP): a reporter of gene expression in <i>Candida albicans</i> <u>Microbiology</u> 143:303-311 (1997)	
2	EV	Cormier <i>et al.</i> , Evidence for similar biochemical requirements for bioluminescence among the coelenterates, <u>J. Cell Physiol.</u> 81: 291-298 (1972)	
2	EW	Cormier "Renilla and Aequorea bioluminescence" pp 225-233 in <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications.</u> DeLuca et al eds, Academic Press 1981.	
2	EX	Dabiri <i>et al.</i> Myofibrillogenesis visualized in living embryonic cardiomyocytes <u>Pro. Natl. Acad. Sci. USA</u> 94:9493-9498 (1997)	
2	EY	Database Derwent #009443237 WPI Acc. No. 93-136754/199317 (citing Japanese Patent Application No. JP 5064583, published March 19, 1993)	
2	EZ	Fey <i>et al.</i> Green Fluorescent protein production in the cellular slime molds <i>Polysphondylium pallidum</i> and <i>Dictyostelium discoideum</i> <u>Gene</u> 165:127-130 (1995)	
2	FA	Fratamico <i>et al.</i> , Construction and characterization of <i>Escherichia coli</i> 0157:H7 strains expressing firefly luciferase and green fluorescent protein and their use in survival studies, <u>J of Food Protection</u> 60(10):1167-1173 (1997)	
2	FB	Giuliano <i>et al.</i> Fluorescent-protein biosensors: new tools for drug discovery <u>TiBech</u> 16: 135-140 (1998)	
2	FC	Grentzmann <i>et al.</i> , A dual-luciferase system for studying recoding signals, <u>RNA</u> 479-486 (1998)	
2	FD	Hart <i>et al.</i> "Renilla reniformis bioluminescence: Luciferase-catalyzed production of nonradiating excited states from luciferin analogues and elucidation of the excited state species involved in energy transfer to Renilla green fluorescent protein", (1979) <u>Biochemistry</u> 18:2204-2210 (1979)	
2	FE	Heim <i>et al.</i> , Engineering green fluorescent protein for improved brightness, longer wavelengths and fluorescence resonance energy transfer, <u>Current Biology</u> 6(2):178-182 (1996)	
2	FF	Heinlein <i>et al.</i> Interaction of Tobamovirus Movement Proteins with the Plant Cytoskeleton <u>Science</u> 270:1983-1985 (1995)	
2	FG	Hori <i>et al.</i> , Renilla luciferin as the substrate for calcium induced photoprotein bioluminescence. Assignment of luciferin plutomers in aequorin and mnemiopsin, <u>Biochemistry</u> 14: 2371-2376, (1975).	
2	FH	Ikawa <i>et al.</i> A rapid and non-invasive selection of transgenic embryos before implantation using green fluorescent protein (GFP) <u>FEBS Letters</u> 375:125-128 (1995)	
2	FI	Inouye <i>et al.</i> , Electroporation as a new technique for producing transgenic fish, <u>Cell Differ. Devel.</u> 29:123-128 (1990)	
2	FJ	Inouye <i>et al.</i> , Monitoring gene expression in Chinese hamster ovary cells using secreted	

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		FILING DATE March 15, 2001	GROUP 1642
		apoeaquerin, <u>Analyt. Biochem.</u> 201(1): 114-118 (1992)	
2	FK	Inouye et al., "Imaging of luciferase secretion from transformed Chinese hamster ovary cells," <u>Proc. Natl. Acad. Sci. USA</u> 89:9584-9587 (1992)	
2	FL	Inouye et al., "Expression of apoeaquerin complementary DNA in <i>Escherichia coli</i> ," <u>Biochem.</u> 25:8425-8429 (1986)	
2	FM	Kain et al., Green Fluorescent Protein as a reporter of Gene Expression and Protein Localization <u>BioTechniques</u> 19:650-655 (1995)	
2	FN	Karp et al., <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</u> , DeLuca et al., eds., pp. 360-363, Academic Press (1981)	
2	FO	Kendall et al., Changes in free calcium in the endoplasmic reticulum of living cells detected using targeted aequorin, <u>Anal. Biochem.</u> 22(1):173-81 (1994)	
2	FP	Knight et al., Imaging calcium dynamics in living plants using semi-synthetic recombinant aequorins, <u>J. Cell Biol.</u> 121(1):83-90 (1993)	
2	FQ	Knight et al., Transgenic plant aequorin reports the effects of touch and cold-shock and elicitors on cytoplasmic calcium, <u>Nature</u> 352(6335): 524-526 (1991)	
2	FR	Leach et al., Commercially available firefly luciferase reagents, in <u>Methods in Enzymology. Bioluminescence and Chemiluminescence Part B</u> 133:51-69, Academic Press (1986)	
2	FS	Legocki et al., Bioluminescence in soybean root nodules: Demonstration of a general approach to assay gene expression <i>in vivo</i> by using bacterial luciferase, <u>Proc. Natl. Acad. Sci. USA</u> 81: 9080-9084 (1986)	
2	FT	McElroy, et al., The Chemistry and Applications of Firefly Luminescence, <u>Bioluminescence and Chemiluminescence</u> , 179-185, Academic Press, Inc. (1981).	
2	FU	Miller et al. An improved GFP cloning cassette designed for prokaryotic transcriptional fusions <u>Gene</u> 191:149-153 (1997)	
2	FV	Mitra et al., Fluorescence resonance energy transfer between blue-emitting and red-shifted excitation derivatives of the green fluorescent protein, <u>Gene</u> 73(1):13-17 (1996)	
2	FW	Miyawaki et al. Fluorescent indicators for $Ca^{2+}$ based on green fluorescent proteins and calmodulin <u>Nature</u> 388:882-887 (1997)	
2	FX	Morin, Energy in a Bioluminescent System, <u>J. Cell Physiol.</u> , 77:313-318 (1971)	
2	FY	Nakajima-Shimada et al., Monitoring of intracellular calcium in <i>Saccharomyces cerevisiae</i> with an apoeaquerin cDNA expression system, <u>Proc. Natl. Acad. Sci. USA</u> 88(15): 6878-6882 (1991)	
2	FZ	Plautz et al., Green Fluorescent protein and its derivatives as versatile markers for gene expression in living <i>Drosophila melanogaster</i> , plant and mammalian cells <u>Gene</u> 173:83-87 (1996)	
2	GA	Rivera et al., AquaLite® Streptavidin for supersensitive TSH assays in microtiter plates and coated tubes, <u>SeaLite Sciences Technical Report No. 6</u>	
2	GB	Rizzuto et al., Rapid changes of mitochondrial $Ca^{2+}$ revealed by specifically targeted recombinant aequorin, <u>Nature</u> 358(6384): 325-327 (1992)	
2	GC	Romoser et al., Detection in living cells of $Ca^{2+}$ -dependent changes in the fluorescence emission of an indicator composed of two green fluorescent protein variants linked by a calmodulin-binding sequence, <u>J. of Biolog. Chem.</u> 272(20):13270-13274 (1997)	
2	GD	Rutter et al., Involvement of MAP kinase in insulin signalling revealed by non-invasive imaging of luciferase gene expression in single living cells, <u>Current Biology</u> 5(8): 890-9 (1995)	
2	GE	Saran et al., Intracellular free calcium level and its response to cAMP stimulation in developing <i>Dictyostelium</i> cells transformed with jellyfish apoeaquerin cDNA, <u>FEBS Lett.</u> 337(1): 43-7 (1994)	
2	GF	Sedlak et al., Bioluminescent Technology for Reagents, Diagnostics and Toxicology," <u>Genetic</u>	

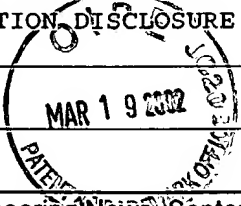
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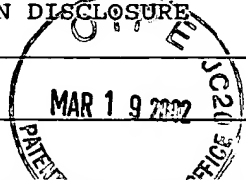
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		APPLICANT BRYAN et al.	
		FILING DATE March 15, 2001	GROUP 1642
			
		Engineering News, September 15, 1995	
2	GG	Sgoutas et al., AquaLite® bioluminescence assay of thyrotropin in serum evaluated, <u>Clin. Chem.</u> 41(11):1637-1643 (1995)	
2	GH	Sheu et al., Measurement of intracellular calcium using bioluminescent aequorin exposed in human cells, <u>Analyt. Biochem.</u> 209(2): 343-347 (1993)	
2	GI	Straight et al. GFP tagging of budding yeast chromosomes reveals that protein-protein interactions can mediate sister chromatid cohesion <u>Current Biology</u> 12:1599-1608 (1996)	
2	GJ	Stults et al. Use of Recombinant Biotinylated Apoequorin in Microtiter and Membrane-Based Assays: Purification of Recombinant Apoequorin from <i>Escherichia coli</i> <u>Biochemistry</u> 31:1433-1442 (1992)	
2	GK	Terry et al. Molecular characterisation of recombinant green fluorescent protein by fluorescence correlation microscopy <u>Biochemical and Biophysical Research Communication</u> 217:21-27 (1995)	
2	GL	Thompson et al., <i>Vargula hilgendorfii</i> luciferase: a secreted reporter enzyme for monitoring gene expression in mammalian cells, <u>Gene</u> 96:257-262 (1990)	
2	GM	Travis, J. Following the Inner Light, Glow Genes provide revealing pictures of infections <u>Science News</u> 150:220-221 (1996)	
2	GN	Xu et al. A bioluminescence resonance energy transfer (BRET) system: Application to interacting circadian clock proteins <u>Proc. Natl. Acad. Sci. USA</u> 96:151-156 (1999)	

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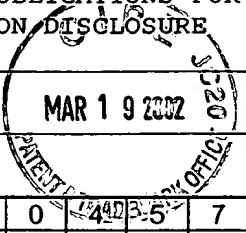
3) Art that concerns items/procedures that use chemi- or bio-luminescence.

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3	GO	3	5	1	1	6	1	2	05/12/70	Kennerly <i>et al.</i>	23	252	03/20/67	
3	GP	3	5	6	5	8	1	5	2/23/71	Christy	252	301.3	12/28/67	
3	GQ	3	6	6	9	8	9	1	6/13/72	Greenwood <i>et al.</i>	252	90	5/27/70	
3	GR	4	3	1	3	8	4	3	2/2/82	Bollyky <i>et al.</i>	252	188.3	9/9/76	
3	GS	4	4	7	8	8	1	7	10/23/84	Campbell <i>et la.</i>	424	7.1	11/14/78	
3	GT	4	5	3	4	3	1	7	08/13/85	Walsh	119	51 R	08/30/84	
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3	GX	4	7	7	7	1	2	8	10/11/88	Lippa	435	5	05/27/86	
3	GY	4	8	5	3	3	2	7	8/1/89	Dattagupta	435	6	7/10/85	
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3	HJ	5	4	3	9	7	9	7	08/08/95	Tsien <i>et al.</i>	435	7.21	08/30/93	
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3	HN	5	7	1	9	0	4	4	02/17/98	Shoseyov <i>et al.</i>	435	69.7	02/17/98	

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3	HR	0	7	1	3	0	8	9	05/22/96	EP A2				
3	HS	2	2	9	2	5	9	5	6/25/76	FR			X*	
3	HT	9	2	0	1	2	2	5	01/23/92	PCT				

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3	HW	9	9	6	6	3	2	4		12/23/99	PCT				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)															
3	HX	Amato, Race quickens for non-stick blood monitoring technology, <u>Science</u> 258:892-893 (1992)													
3	HY	Apt et al., Evolution of phycobiliproteins, <u>J. Mol. Biol.</u> 248: 79-96 (1995)													
3	HZ	Baird et al., "Biochemistry, mutagenesis, and oligomerization of DsRed, a red fluorescent protein from coral", <u>PNAS</u> , 97(22):11984-11989; (2000)													
3	IA	Bondar et al., Cadmium-induced luminescence of recombinant photoprotein obelin, <u>Biochim. Biophys. Acta</u> 1231: 29-32 (1995)													
3	IB	Campbell et al., Formation of the Ca <sup>2+</sup> -activated photoprotein obelin from apo-obelin and mRNA inside human neutrophils, <u>Biochem. J.</u> 252(1):143-9 (1988)													
3	IC	Cardullo et al. Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer <u>Pro.Natl. Acad. Sci. USA</u> 85:8790-9794 (1988)													
3	ID	Crescitelli, Adaptations of visual pigments to the photic environment of the deep sea, <u>J. Exptl. Zool. Supp.</u> 5: 66-75 (1991)													
3	IE	Database Derwent #008987167 (citing WO 9204577, Chemiluminescence prodn. in liq.-contg. vessel - by placing reagent envelope in liq. or vessel base)													
3	IF	Fairchild et al., Oligomeric Structure, Enzyme Kinetics, and Substrate Specificity of the Phycocyanin Subunit Phycocyanobilin Lyase, <u>The Journal of Biological Chemistry</u> 269(12): 8686-8694 (1994).													
3	IG	Frackman et al., "Cloning, Organization, and Expression of the Bioluminescence Genes of <i>Xenorhabdus luminescens</i> ," <u>J. Bacteriol.</u> , 172(10):5767-5773; (1990)													
3	IH	Goldmacher et al., "Photoactivation of Toxin Conjugates", <u>Bioconj. Chem.</u> , 3:104-107; (1992)													
3	II	Gautier et al., Alternate determination of ATP and NADH with a single bioluminescence-based fiber-optic sensor, Fifth International Conference on Solid State Sensors and Actuators and Eurosensors III, Montreux, Switzerland, 25-30 June 1989													
3	IJ	Gilbert et al., Expression of genes involved in phycocyanin biosynthesis following recovery of <i>Synechococcus</i> PCC 6301 from nitrogen starvation, and the effect of gabaculine on <i>cpcBa</i> transcript levels, <u>FEMS Microbiol. Lett.</u> 140: 93-98 (1996)													
3	IK	Glazer, Phycobilisomes: structure and dynamics, <u>Ann. Rev. Microbiol.</u> 36: 173-98 (1982).													
3	IL	Goldstein et al., Characterization of the Cellulose-Binding Domain of the <i>Clostridium cellulovorans</i> Cellulose-Binding Protein A, <u>Journal of Bacteriology</u> 175(18): 5762-5768 (1993).													
3	IM	Hart et al., <i>Renilla reniformis</i> Bioluminescence: Luciferase-Catalyzed Production of Nonradiating Excited States from Luciferin Analogues and Elucidation of the Excited State Species Involved in Energy Transfer to <i>Renilla</i> Green Fluorescent Protein, <u>Biochemistry</u> 18(11):2204-2210 (1979).													
3	IN	Houmard et al., Genes encoding core components of the phycobilisome in cyanobacterium <i>Calothrix</i> sp. strain PCC 7601: occurrence of a multigene family, <u>J. Bacteriol.</u> 170(12): 5512-5521 (1988)													
3	IO	Illarionov et al., "Sequence of the cDNA encoding the Ca <sup>2+</sup> -activated photoprotein obelin from the hydroid polyp <i>Obelia longissima</i> ", <u>Gene</u> , 153:273-274; (1995)													
3	IP	Johnson, F.H., Luminescence, Narcosis, and Life in the Deep Sea, <u>Vantage Press, NY</u> pp. 50-56 (1988)													
3	IQ	Kronick, The use of phycobiliproteins as fluorescent labels in immunoassay, <u>J. Immunolog. Meth.</u> 92: 1-13 (1986)													
3	IR	Liu et al., A cyanidium caldarium Allophycocyanin subunit gene, <u>Plant Physiol.</u> 103:293-294 -													

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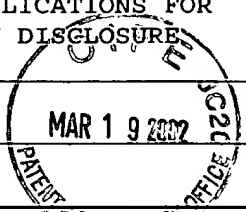
		(1993)
3	IS	Lucas et al., Coelenterazine is a superoxide anion-sensitive chemiluminescent probe: its usefulness in the assay of respiratory burst in neutrophils, <u>Analyt. Biochem.</u> 206(2):273-277 (1992)
3	IT	Morin et al., "Energy Transfer in _ Bioluminescent System", <u>J. Cell Physiol.</u> , 77:313-318; (1971)
3	IU	Müller and Campbell, "The chromophore of pholasin: A highly luminescent protein", <u>J. Biolumin. Chemilum.</u> 5:25-30 (1990)
3	IV	Nicoli et al., Bacterial luciferase: The hydrophobic environment of the reactive sulfhydryl, <u>J. Biol. Chem.</u> 249: 2393-2396 (1974)
3	IW	O'Day et al., <i>Aristostomias scintillans</i> (Malacostiedae): a deep sea fish with visual pigments apparently adapted to its own bioluminescence, <u>Vision Res.</u> 14:545-550 (1974)
3	IX	Peerce et al. Distance between substrate sites on the Na-glucose cotransporter by fluorescence energy transfer <u>Proc. Natl. Acad. Sci. USA</u> 83:8092-8096 (1986)
3	IY	Pilot et al., Cloning and sequencing of the genes encoding the _ and _ subunits of C-phycocyanin from the cyanobacterium <i>Agmenellum quadruplicatum</i> , <u>Proc. Natl. Acad. Sci. USA</u> 81: 6983-6987 (1984)
3	IZ	Senter et al., "Novel Photocleavable Protein Crosslinking Reagents and their Use in the Preparation of Antibody-toxin Conjugates", <u>Photochem. &amp; Photobiol.</u> , 42(3):231-237; (1985)
3	JA	Shimomura et al., Resistivity to denaturation of the apoprotein of aequorin and reconstitution of the luminescent photoprotein from the partially denatured apoprotein, <u>Biochem J.</u> 199:825-828 (1981)
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3	JC	Shimomura et al., The relative rate of aequorin regeneration from apoaequorin and coelenterazine analogues, <u>Biochem. J.</u> 296(Pt. 3): 549-551 (1993)
3	JD	Shimomura, Bioluminescence in the sea: photoprotein systems [Review], <u>Symposia of the Society for Experimental Biology</u> 39: 351-372 (1985)
3	JE	Shimomura, "Cause of spectral variation in the luminescence of semisynthetic aequorins", <u>Biochem J.</u> 306:537-543 (1995)
3	JF	Shimomura et al., Peroxidized coelenterazine, the active group in the photoprotein aequorin, <u>Proc. Natl. Acad. Sci. USA</u> 75(6): 2611-5 (1978)
3	JG	Smalley et al., "Localization of fluorescent compounds in the firefly light organ", <u>J. Histochem. Cytochem.</u> 28(4):323-329 (1980)
3	JH	Smith et al., Bioluminescent immunoassays using streptavidin and biotin conjugates of recombinant aequorin, reprinted from <u>American Biotechnology Laboratory</u> , April 1995
3	JI	Stability of AquaLite®: lyophilized and in solution, <u>SeaLite Sciences Technical Report No. 8</u> (1994)
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3	JK	Tsuji et al., Mechanism of the enzyme-catalyzed oxidation of <i>Cypridina</i> and firefly luciferins studied by means of <sup>17</sup> O <sub>2</sub> and H <sub>2</sub> <sup>18</sup> O <sup>1</sup> , <u>Biochem. Biophys. Res. Commun.</u> 74(2):606-613 (1977)
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3	JM	Vysotski et al., Luminescence of Ca <sup>2+</sup> -activated photoprotein obelin initiated by NaOCl and MnCl <sub>2</sub> , <u>J. Biolumin. Chemilum.</u> 8:301-305 (1993)
3	JN	Wall et al., "The structural basis for red fluorescence in the tetrameric GFP homolog DsRed", <u>Nature Structural Biol.</u> , 7(12):1133-1138; (2000)
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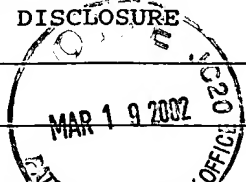
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		Separation and Characterization of the Renatured Protein <u>Biochemistry 21:4535-4540 (1982)</u>	
3	JP	Ward, Properties of the Coelenterate Green-Fluorescent Proteins <u>Bioluminescence and Chemiluminescence 235-242 (1981)</u>	
3	JQ	Ward, General Aspects of Bioluminescence, in <u>Chemi- and Bioluminescence</u> , Ch. 7, Burr, ed., Marcel Dekker, Inc., New York	
3	JR	Ward et al. Energy Transfer Via Protein-Protein Interaction in Renilla Bioluminescence <u>Photochemistry and Photobiology 27:389-396 (1978)</u>	
3	JS	Ward, Energy Transfer Processes in Bioluminescence <u>Photochem. Photobiol. Rev. 4:1-57</u>	
3	JT	Ward et al., An energy transfer protein in coelenterate bioluminescence, <u>J. Biol. Chem. 254: 781-788 (1979)</u>	
3	JU	Ward et al. In Vitro Energy Transfer in Renilla Bioluminescence <u>The Journal of Physical Chemistry 8:2289-2291 (1976)</u>	
3	JV	Watanabe et al., Bunding of murine monoclonal antibodies to the active and inactive configurations of aequorin, <u>FEBS Lett. 246(1-2): 73-77 (1989)</u>	
3	JW	Watkins et al., Requirement of the C-terminal proline residue for stability of the Ca <sup>(2+)</sup> -activated photoprotein aequorin, <u>Biochem. J. 293(Pt.1): 181-185 (1993)</u>	
3	JX	Welches et al., Active center studies on bacterial luciferase: Modification of the enzyme with 2,4-dinitrofluorobenzene, <u>Biochemistry 20: 512-517 (1981)</u>	
3	JY	Widder et al., "Far red bioluminescence from two deep-sea fishes", <u>Science 225:512-514 (1984)</u>	
3	JZ	Wienhausen et al., Luciferases from different species of fireflies are antigenically similar, <u>Photochem. Photobiol. 42: 609-611 (1985)</u>	
3	KA	Yarbrough et al., "Refined crystal structure of DsRed, a red fluorescent protein from coral, at 2.0-Å resolution", <u>PNAS, 98(2):462-467; (2001)</u>	
3	KB	Yen et al., "Synthesis of water-soluble copolymers containing photocleavable bonds", <u>Makromol. Chem., 190:69-82; (1989)</u>	
3	KC	Ziegler et al., Active center studies on bacterial luciferase: Locations of the protease labile regions and the reactive cysteinyl residue in the primary structure of the _ subunit, <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications, DeLuca et al., eds., pp. 376-377, Academic Press (1981)</u>	

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4) Art that concerns novelty items which use chemi- or bioluminescence.

U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLAS S	SUB CLAS S	FILING DATE	
4	KD	3	5	8	4	2	1	1	6/8/71	Rauhut	240	2.25	10/7/68	
4	KE	3	6	3	4	2	8	0	1/11/72	Dean et al.	252	301.3 R	12/31/68	
4	KF	3	6	6	1	7	9	0	5/9/72	Dean et al.	252	301.3 R	1/31/68	
4	KG	4	5	6	3	7	2	6	1/7/86	Newcomb et al.	362	34	8/20/84	
4	KH	4	7	1	7	1	5	8	1/5/88	Pennisi	273	58A	6/26/86	
4	KI	4	7	8	1	6	4	7	11/1/88	Doane, Jr.	446	219	5/4/87	
4	KJ	4	9	2	4	3	5	8	5/8/90	Von Heck	362	32	9/12/88	
4	KK	4	9	6	3	1	1	7	10/16/90	Gualdoni	446	219	10/30/89	
4	KL	5	1	5	8	3	4	9	10/27/92	Holland et al.	362	34	07/03/91	
4	KM	5	1	7	1	0	8	1	12/15/92	Pita et al.	362	34	5/29/92	
4	KN	5	2	2	2	7	9	7	6/29/93	Holland	362	34	10/31/91	
4	KO	5	3	2	3	4	9	2	6/28/94	DeMars	2	203.13	11/6/92	
4	KP	5	3	8	3	1	0	0	01/17/95	Kikos	362	34	08/02/91	
4	KQ	5	4	1	3	3	3	2	5/09/95	Montgomery	273	58	05/26/94	
4	KR	5	4	1	5	1	5	1	5/16/95	Fusi et al.	124	56	9/20/93	
4	KS	5	6	7	1	9	9	8	09/30/97	Collet	362	101	08/30/91	
4	KT	5	7	3	0	3	2	1	03/24/98	McAllister et al.	222	1	12/13/95	
4	KU	5	8	7	6	9	9	5	3/2/99	Bryan	435	189	11/25/96	
4	KV	6	1	1	3	8	8	6	09/05/00	Bryan	424	49	11/22/99	
4	KW	6	1	5	2	3	5	8	11/28/00	Bryan	229	87.19	08/17/98	
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLAS S	SUB CLAS S	Translation Yes No	
4	KX	9	7	2	9	3	1	9	08/14/97	PCT	--	--		

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## 5) Art that concerns items/procedures that do not use chemi- or bioluminescence

U.S. PATENT DOCUMENTS													
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5	KY	2	5	4	1	8	5	1	2/13/51	Wright	260	37	12/23/44
5	KZ	3	6	4	9	0	2	9	03/14/72	Worrell	273	186	07/09/69
5	LA	3	7	2	7	2	3	6	04/17/73	Lloyd et al.	2	51	06/15/71
5	LB	3	3	8	4	4	9	8	5/21/68	Ahrabi	106	38.5	1/4/67
5	LC	3	8	7	3	4	8	5	3/25/75	Fichera	260	29.2	4/3/74
5	LD	4	0	2	1	3	6	4	5/03/77	Speiser	252	316	12/04/73
5	LE	4	0	4	4	1	2	6	08/23/77	Cook et al.	424	243	07/09/76
5	LF	4	1	7	5	1	8	3	11/20/79	Ayers	536	57	05/24/78
5	LG	4	1	7	7	0	3	8	12/04/79	Biebricher et al.	8	192	05/17/77
5	LH	4	2	2	5	5	8	1	9/30/80	Kreuter et al.	424	88	8/07/78
5	LI	4	2	2	9	7	9	0	11/21/80	Gilliland et al.	364	200	10/16/78
5	LJ	4	2	6	9	8	2	1	5/26/81	Kreuter	424	19	05/02/80
5	LK	4	2	8	1	6	4	5	08/04/81	Jöbbsis	128	633	06/28/77
5	LM	4	2	8	2	2	8	7	8/4/81	Giese	428	407	01/24/80
5	LN	4	3	2	4	6	8	3	4/13/82	Lim et al.	252	316	08/20/75
5	LO	4	3	6	4	9	2	3	12/21/82	Cook et al.	424	46	04/30/81
5	LP	4	4	1	4	2	0	9	11/08/83	Cook et al.	424	243	06/13/77
5	LQ	4	5	2	8	1	8	0	7/09/85	Schaeffer	424	52	03/01/83
5	LR	4	5	4	2	1	0	2	9/17/85	Dattagupta et al.	435	6	07/05/83
5	LS	4	5	6	2	1	5	7	12/31/85	Lowe et al.	435	291	05/25/84
5	LT	4	6	7	6	4	0	6	6/30/87	Frischmann et al.	222	136	9/29/86
5	LU	4	6	8	1	8	7	0	7/21/87	Balint et al.	502	403	01/11/85
5	LV	4	7	3	5	6	6	0	4/5/88	Cane	106	203	6/26/87
5	LW	4	7	4	5	0	5	1	05/17/88	Smith et al.	435	68	05/27/83
5	LX	4	7	6	2	8	8	1	8/09/88	Kauer	525	54.11	01/09/87
5	LY	4	7	6	5	5	1	0	8/23/88	Rende	222	79	4/7/87
5	LZ	4	7	8	9	6	3	3	12/06/88	Huang	435	240.2	04/19/84
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5	MB	4	8	8	2	1	6	5	11/21/89	Hunt et al.	424	450	11/05/86
5	MC	4	8	9	1	0	4	3	1/02/90	Zeimer et al.	604	20	05/28/87
5	MD	4	9	0	8	4	0	5	3/13/90	Bayer et al.	525	61	01/02/86
5	ME	4	9	2	1	7	5	7	5/01/90	Wheatley et al.	428	402.2	09/03/87
5	MF	4	9	2	7	9	2	3	05/22/90	Mathis et al.	540	456	09/20/85
5	MG	4	9	5	2	4	9	6	08/28/90	Studier et al.	435	91	12/29/86
5	MH	5	0	2	3	1	8	1	6/11/91	Inouye	435	189	7/13/88
5	MI	5	0	9	6	8	0	7	3/17/92	Leaback	435	6	3/17/92
5	MJ	5	1	2	8	2	5	6	07/07/92	Huse et al.	435	172.3	04/20/89
5	MK	5	1	6	2	5	0	8	11/10/92	Lehn et al.	401	04	06/26/91

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5	ML	5	1	6	9	7	8	4	12/08/92	Summers et al.	435	320.1	09/17/90	
5	MN	5	2	1	5	8	9	9	06/01/93	Dattagupta	435	6	08/23/90	
5	MO	5	2	4	3	0	4	1	09/07/93	Fernandez-Pol	536	23.5	08/22/91	
5	MP	5	2	6	6	3	1	7	11/30/93	Tomalski et al.	424	93 T	10/04/90	
5	MQ	5	2	6	8	4	6	3	12/7/93	Jefferson	536	23.7	12/8/89	
5	MR	5	2	7	7	9	1	3	1/11/94	Thompson et al.	424	450	09/09/91	
5	MS	5	2	8	8	6	2	3	02/22/94	Zenno et al.	435	69.7	07/13/92	
5	MT	5	3	1	0	4	2	1	5/10/94	Shapero et al.	106	208	2/7/92	
5	MU	5	3	3	7	7	4	5	08/16/94	Benaron	128	633	11/12/93	
5	MV	5	3	6	0	7	2	6	11/01/94	Raikhel	435	172.3	11/12/91	
5	MW	5	3	6	2	8	6	5	11/8/94	Austin	536	24.1	9/12/93	
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5	MY	5	3	6	6	8	8	1	11/22/94	Singh et al.	435	177	02/23/93	
5	MZ	5	3	8	7	5	2	6	2/07/95	Garner et al.	436	169	09/11/91	
5	NA	5	4	0	5	9	0	5	4/11/95	Darr	524	420	11/26/93	
5	NB	5	4	0	5	9	5	8	4/11/95	VanGermert	544	71	12/21/92	
5	NC	5	4	1	2	0	8	5	5/2/95	Allen et al.	536	24.1	11/09/93	
5	ND	5	4	1	3	0	9	8	05/09/95	Benaron	128	633	12/22/92	
5	NE	5	4	3	2	0	8	1	7/11/95	Jefferson	435	252.3	11/15/93	
5	NF	5	4	5	5	3	5	7	10/03/95	Herrmann et al.	548	147		
5	NG	5	4	6	4	7	5	8	11/7/95	Gossen et al.	435	69.1	6/14/93	
5	NH	5	4	9	6	9	3	4	03/05/96	Shoseyov et al.	536	23.7	04/14/93	
5	NI	5	6	0	5	6	6	2	02/25/97	Heller et al.	422	68.1	11/01/93	
5	NJ	5	6	2	4	7	1	1	04/29/97	Sundberg et al.	427	261	04/27/95	
5	NK	5	6	3	2	9	5	7	05/27/97	Heller et al.	422	68.1	09/09/94	
5	NL	5	6	7	0	6	2	3	09/23/97	Shoseyov et al.	530	350	06/02/95	
5	NM	5	7	3	8	9	8	4	04/14/98	Shoseyov	435	4	06/02/95	
5	NN	6	0	2	0	5	3	8	02/01/00	Han et al.	800	293	05/01/98	
5	NO	6	2	3	2	1	0	7	05/15/01	Bryan et al.	435	189	03/26/99	

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5	NQ	8	6	0	3	8	4	0	07/03/86	PCT			
5	NR	9	3	1	3	3	9	5	07/08/93	PCT			
5	NS	9	4	2	5	8	5	5	11/10/94	PCT			
5	NT	9	6	0	7	9	1	7	03/14/96	PCT			

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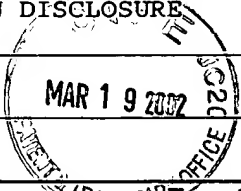
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
5	NU	Altschul et al., "Basic Local Alignment Search Tool", <i>J. Mol. Biol.</i> , 215:403-410; (1990)
5	NV	Anderson, <i>Radiolaria</i> , Springer-Verlag, New York (1983)
5	NW	Aviv et al., Purification of Biologically Active Globin Messenger RNA by Chromatography on Oligothymidylic acid-Cellulose, <i>Proc. Natl. Acad. Sci. USA</i> 69(6):1408-1412 (1972).
5	NX	Batra et al., "Insertion of Constant Region Domains of Human IgG, into CD4-PE40 Increases Its Plasma Half-life", <i>Molecular Immunol.</i> , 30(4):379-386; (1993)
5	NY	Bayer and Wichek (1980) <u>The Use of Avidin/Biotin Complex as a Tool in Molecular Biology. Meth. Biochem. Anal.</u> 26, 1-45
5	NZ	Berg et al., Long-chain polystyrene-grafted polyethylene film matrix: a new support for solid-phase peptide synthesis, <i>J. Am. Chem. Soc.</i> 111: 8026-8027 (1989)
5	OA	Berg et al., Peptide synthesis on polystyrene-grafted polyethylene sheets, <i>Pept., Proc. Eur. Pept. Symp.</i> , 20th, Jung et al. (Eds.), pp. 196-198 (1989)
5	OB	Berg et al., Polystyrene-grafted polyethylene: Design of film and felt matrices for solid-phase peptide synthesis, <i>Innovation Perspect. Solid Phase Synth. Collect. Pap., Int. Symp.</i> , 1st, Epton (ed.), pp. 453-459 (1990)
5	OC	Biocomputing: <u>Informatics and Genome Projects</u> , Book: Smith, D.W., Ed., Academic Press, New York; (1993)
5	OD	Bodanszky and Bodanszky, <u>The Practice of Peptide Synthesis</u> , Springer-Verlag, New York, (1984)
5	OE	Bunnin et al. The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library, <i>Proc. Natl. Acad. Sci. USA</i> , 91:4708-4712 (1994)
5	OF	Carlsson et al. Protein Thiolation and Reversible Protein-Protein Conjugation <i>Biochem. J.</i> 173: 723-737 (1978)
5	OG	Carrillo et al., "The Multiple Sequence Alignment Problem in Biology", <i>SIAM J. Applied Math</i> , 48(5):1073-1082; (1988)
5	OH	Childress, "Oxygen minimum layer: Vertical distribution and respiration of the mysid gnathophausia ingens", <i>Science</i> 160:1242-1243 (1968)
5	OI	Chirgwin et al., Isolation of Biologically Active Ribonucleic Acid from Sources Enriched in Ribonuclease, <i>Biochemistry</i> 18(24):5294-5299 (1979).
5	OJ	<u>Computational Molecular Biology</u> , Book: Lesk, A.M., ed., Oxford University Press, New York; (1988)
5	OK	<u>Computer Analysis of Sequence Data</u> , Book: Part I, Griffin, A.M., and Griffin, H.G., eds., Humana Press, New Jersey; (1994)
5	OL	Cumber et al., "Structural Features of the Antibody-A Chain Linkage that Influence the Activity and Stability of Ricin A Chain Immunotoxins", 3(5):397-401; (1992)
5	OM	Devereux et al., "A comprehensive set of sequence analysis programs for the VAX", <i>Nucl. Acids Res.</i> , 12(1):387-395; (1984)
5	ON	DeWitt et al., Diversomers: an approach to nonpeptide, nonoligomeric chemical diversity, <i>Proc. Natl. Acad. Sci. USA</i> 90: 6909-6913 (1993)
5	OO	DeWitt et al., DIVERSOMER™ Technology: solid phase synthesis, automation, and integration for the generation of chemical diversity, <i>Drug Dev Res</i> 33:116-124 (1994).
5	OP	DIALOG Abstract 002042687, citing: JP 7241192
5	OQ	Düzgunes et al., Fusion of phospholipid vesicles induced by divalent cations and protons; modulation by phase transitions, free fatty acids, monovalent cations, and polyamines, <i>Cell Fusion</i> , Ch. 11 Divalent Cations and Protons, Sowers, A.E. (ed.) pp. 241-267 (1984).
5	OR	Fattom et al., "Comprehensive Immunogenicity of Conjugates Composed of the

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT			
		APPLICANT BRYAN et al.	
		FILING DATE March 15, 2001	GROUP 1642
		<i>Staphylococcus aureus</i> Type 8 Capsular Polysaccharide Bound to Carrier Proteins by Adipic Acid Dihydrazide or <i>N</i> -Succinimidyl-3-(2-Pyridyldithio)propionate", <i>Infection &amp; Immun.</i> , 60(2):584-589; (1992)	
5	OS	Goodchild, "Conjugates of oligonucleotides and modified oligonucleotides: A review of their synthesis and properties", <i>Perspectives in Bioconjugate Chemistry</i> , Mears, ed., American Chemical Society, Washington, D.C., Ch 6, pp. 77-99 (1993)	
5	OT	Gordon et al. Topographical localization of the C-terminal region of the voltage-dependent sodium channel from <i>Electrophorus electricus</i> using antibodies raised against a synthetic peptide <i>Proc. Natl. Acad. Sci.</i> 84:308-312 (1987)	
5	OU	Gribskov et al., "Sigma factors from <i>E. coli</i> , <i>B. subtilis</i> , phage SP01, and phage T4 are homologous proteins", <i>Nucl. Acids Res.</i> , 14(16):6745-6762; (1986)	
5	OV	<i>Guide to Human Genome Computing</i> , Book: Martin J. Bishop, ed., Academic Press, San Diego; (1994)	
5	OW	Guyomard et al., Integration and germ line transmission of foreign genes microinjected into fertilized trout eggs, <i>Biochimie</i> 71:857-863 (1989)	
5	OX	Hazum et al., A photocleavable protecting group for the thiol function of cysteine, <i>Pept., Proc. Eur. Pept. Symp.</i> , 16th, Brunfeldt, K (Ed), pp. 105-110 (1981)	
5	OY	Hermanson et al., <i>Immobilized Affinity Ligand Techniques</i> , Chaps. 1 and 2, Academic Press, Inc. (1992)	
5	OZ	<i>Immobilized Biochemicals and Affinity Chromatography</i> , Advances in Experimental Medicine and Biology, vol. 42, ed. R. Dunlap, Plenum Press, N.Y. (1974) Table of Contents	
5	PA	<i>Immobilized Enzyme, Antigens, Antibodies and Peptides. Preparation and Characterization</i> , Marcel Dekker, Inc., N.Y., Howard H. Weetall (ed.) (1975)	
5	PB	Jellinek et al., "Potent 2'-Amino-2'-deoxypyrimidine RNA Inhibitors of Basic Fibroblast Growth Factor", <i>Biochem.</i> , 34:11363-11372; (1995)	
5	PC	Kennedy and Cabral, Immobilized Enzymes, in <i>Solid Phase Biochemistry, Analytical and Synthetic Aspects</i> , Scouten, Ed., 7:253-391 (1983)	
5	PD	Kent et al., Preparation and properties of tert-butyloxycarbonylaminocayl-4-(oxymethyl) phenylacetamidomethyl-(Kel F-g-styrene) resin, an insoluble, noncrosslinked support for solid phase peptide synthesis, <i>Israel J. Chem.</i> 17: 243-247 (1978)	
5	PE	Kozak, Structural Features in Eukaryotic mRNAs that Modulate the Initiation of Translation <i>The Journal of Biological Chemistry</i> 266:19867-19870 (1991)	
5	PF	Kröger et al., "A new calcium binding glycoprotein family constitutes a major diatom cell wall component", <i>EMBO</i> 13:4676-4683 (1996)	
5	PG	Kröger et al., "Frustulins: domain conservation in a protein family associated with diatom cell walls", <i>Eur. J. Biochem.</i> 239:259-264 (1996)	
5	PH	Lin et al., "Modified RNA sequence pools for <i>in vitro</i> selection", <i>Nucl. Acids Res.</i> , 22(24):5229-5234; (1994)	
5	PI	<i>Liposome Technology, Targeted Drug Delivery and Biological Interaction</i> , vol. III, G. Gregoriadis (ed.), CRC Press, Inc. (1984) Table of Contents	
5	PJ	Mahan et al., "Phase Change Enzyme Immunoassay", <i>Anal. Biochem.</i> , 162:163-170; (1987)	
5	PK	Mengeling et al., A microplate assay for analysis of solution-phase glycosyltransferase reactions: Determination of kinetic constants, <i>Anal. Biochem.</i> 199:286-292 (1991)	
5	PL	Millon et al., "Synthesis of a new reagent, ethyl 4-azidobenzoylaminoacetimidate, and its use for RNA-protein cross-linking within <i>Escherichia coli</i> ribosomal 30-S subunits", <i>Eur. J. Biochem.</i> 110:485-492 (1980)	
5	PM	<i>Molecular Biology of the Gene</i> , 4th Edition, 1987, ed. Watson et al. The Benjamin/Cummings Pub. co. Pg 224	

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		FILING DATE March 15, 2001	GROUP 1642	

*(Circular stamp: MAR 19 2002, PATENT OFFICE)*

5	PN	Mosbach, AMP and NAD as 'general ligands', Affinity Techniques. Enzyme Purification: Part B. Methods in Enzymology, Vol. 34, W. B. Jakoby, et al. (eds.), Acad. Press, N.Y. (1974)
5	PO	Mosbach et al. Immobilization of enzymes to various acrylic copolymers. Methods in Enzymology 44:53-65 (1976)
5	PP	Mosbach et al. Immobilized coenzymes. Methods in Enzymology 44:859-887 (1976)
5	PQ	Mosbach, K and Mattiasson, B. Multistep enzyme systems. Methods in Enzymology 44:453-478 (1976)
5	PR	Mosbach, K. Immobilized Enzymes. Methods in Enzymology 44:3-7 (1976)
5	PS	Nakamura et al., DNA Sequence of the Gene for the Outer Membrane Lipoprotein of E. coli: an Extremely AT-Rich Promoter, Cell 18:1109-1117 (1979).
5	PT	Needleman et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", J. Mol. Biol., 48:443-453; (1970)
5	PU	Nogrady, Medicinal Chemistry, A Biochemical Approach, Oxford University Press, New York pp. 388-392.
5	PV	Ozato et al., Production of transgenic fish: introduction and expression of chicken - crystalline gene in medaka embryos, Cell Differ. Devel. 19:237-244 (1986)
5	PW	Pagratris et al., "Potent 2'-amino-, and 2'-fluoro-2'-deoxyribonucleotide RNA inhibitors of keratinocyte growth factor", Nature Biotechnol., 15:68-73; (1997)
5	PX	Pearson et al., "Improved tools for biological sequence comparison", Proc. Natl. Acad. Sci. U.S.A., 85:2444-2448; (1988)
5	PY	Peffer et al., "Strand-invasion of duplex DNA by peptide nucleic acid oligomers", Proc. Natl. Acad. Sci. U.S.A., 90:10648-10652 (1993)
5	PZ	Pierce Catalog, pp. T123-T154, 1994
5	QA	PIERCE Catalog & Handbook, pp. O90-O110, T155-T200 (1994)
5	QB	PIERCE CATALOG, ImmunoTechnology Catalog & Handbook (1992-1993)
5	QC	Sambrook et al., Molecular Cloning, 2nd ed., Cold Springs Harbor Laboratory press, New York (1989).
5	QD	Sanger et al., DNA sequencing with chain-terminating inhibitors, Proc. Natl. Acad. Sci. USA 74(12):5463-5467 (1977).
5	QE	Schwartz and Dayhoff, eds., Book: #23 "Matrices for Detecting Distant Relationships", Atlas of Protein Sequence and Structure, National Biomedical Research Foundation, pages 353-358; (1979)
5	QF	Sequence Analysis in Molecular Biology, Book: von Heijne, Academic Press, Inc., (1987)
5	QG	Sequence Analysis Primer, Book: Gribskov M. and Devereux J., eds., Stockton Press, New York; (1991)
5	QH	Smith et al., "Comparison of Biosequences", Adv. Appl. Math., 2:482-489; (1981)
5	QI	Stewart and Young, Laboratory techniques in solid phase peptide synthesis, Solid Phase Peptide Synthesis, 2d Ed., Pierce Chemical Co., pp. 53-73 (1984)
5	QJ	Studier et al. Use of T7 RNA Polymerase to Direct Expression of Cloned Genes Methods in Enzymology 185: 60-89 (1990)
5	QK	Thorpe et al., "New Coupling Agents for the Synthesis of Immunotoxins Containing a Hindered Disulfide Bond with Improved Stability in Vivo", Cancer Res., 47:5924-5931; (1987)
5	QL	Tomme et al., Cellulose-Binding Domains: Classification and Properties, American Chemical Society pp.142-163 (1995).
5	QM	Travis, J., X-rays speed healing of rat spinal cords, Science News 150:214, (1996)
5	QN	Urlaub et al., Effect of Gamma Rays at the Dihydrofolate Reductase Locus: Deletions and Inversions, Somatic Cell and Molecular Genetics 12(6):555-566 (1986).
5	QO	Walden et al., "Major Histocompatibility Complex-Restricted and Unrestricted Activation of

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		Helper T Cell Lines by Liposome-Bound Antigens", <i>J. Mol. Cell. Immunol.</i> , 2:191-197; (1986)	
5	QP	Wang et al. Implications for bcd mRNA localization from spatial distribution of exu protein in <i>Drosophila oogenesis</i> <i>Nature</i> 369:400-403 (1994)	
5	QQ	Wawrzynczak et al., "Molecular and biological properties of an abrin A chain immunotoxin designed for therapy of human small cell lung cancer", <i>Br. J. Cancer</i> , 66:361-366; (1992)	
5	QR	Wellhöner et al., "Uptake and Concentration of Bioactive Macromolecules by K562 Cells via the Transferrin Cycle Utilizing an Acid-labile Transferrin Conjugate", <i>J. Biol. Chem.</i> , 266(7):4309-4314; (1991)	
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Title: RENILLA RENIFORMIS FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE FLUORESCENT PROTEINS AND THE USE THEREOF IN DIAGNOSTICS, HIGH THROUGHPUT SCREENING AND NOVELTY ITEMS

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